

Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Utah Water Supply Outlook

and

Federal – State – Private Cooperative Snow Surveys

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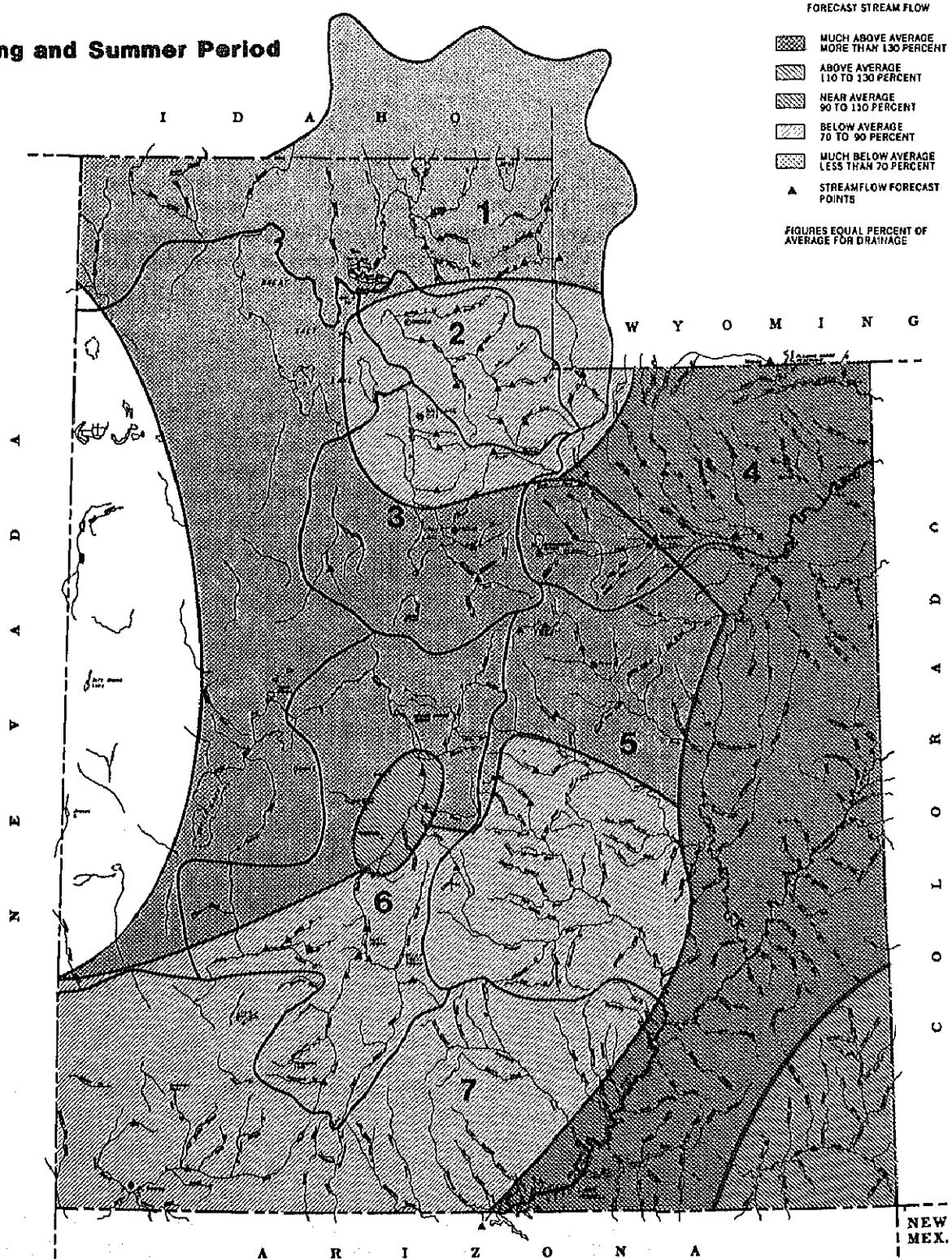
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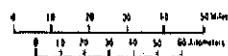
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Streamflow Prospects for Utah

Spring and Summer Period



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GENERAL OUTLOOK

SUMMARY:

Heavy, late February snowfall improved the snowpack in southern and eastern Utah but only brought the snowpack up to 70-80% of normal for March 1. Northern Utah watersheds have only 65-70% of normal snow water. Streamflow forecasts remain generally below average but reservoir storage is above average in most areas.

SNOWPACK:

The snowpack across the State increased 10% more than usual during February. The increases, however, were not evenly distributed. Bear and Weber River watersheds only received about 80% of the usual February increase while southeastern Utah received almost 75% more than the normal increase during the month. Snow surveys conducted near March 1 indicate the snowpack is still below to much below normal in most areas of the State. Increases ranging from 171 to 336% of normal would be required in March just to bring the snowpack to average by the first of April. With normal increases in March the April 1 snowpack will only range from 64 to 87% of average across the State.

PRECIPITATION:

Precipitation at mountain stations ranged from generally below normal on the Bear and Weber River watersheds to above to much above normal over the remainder of the State. Valley precipitation ranged from less than 50% of normal on some of the stations in northeastern Utah to almost 250% of normal in the southeastern area of the State. Seasonal precipitation, October-February, ranges from less than 50% on a strip from Bear Lake south to the Spanish Fork drainage to 50-80% in western and the remainder of northern Utah. The eastern half of the State ranges from near to above normal.

RESERVOIRS:

Stored water in 26 key reservoirs in Utah is 127% of average for the end of February. All reservoirs sampled which have established averages were above average except Hyrum which was 93% of average. About one-quarter of the reservoirs sampled were reported as full. The only area where filling is doubtful and water shortages are likely is in extreme southwestern Utah where late February storms have helped but much more is needed.

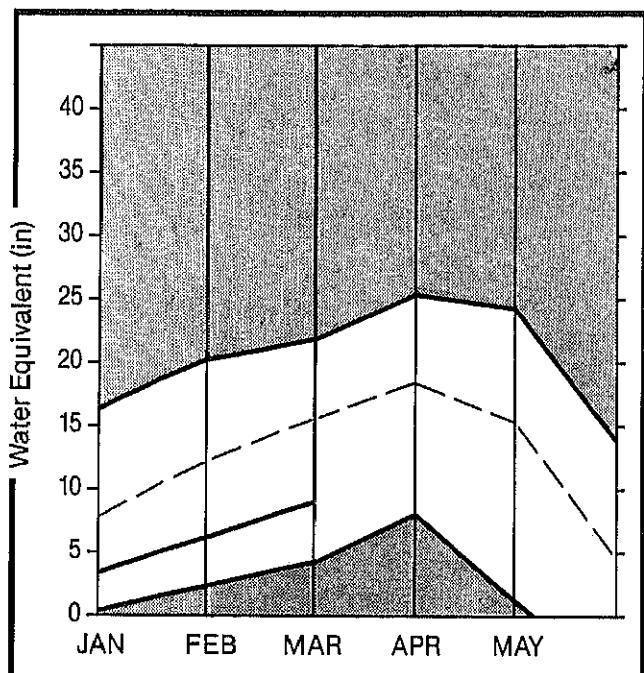
STREAMFLOW:

Forecasts of spring and summer streamflow are still generally below to much below average. Some stations on the Sevier are still forecast above average, however, as are the Colorado and San Juan Rivers. Most forecasts are slightly higher than last month but forecasts on the Ogden, Provo R.-Utah Lake, Jordan, and Price Rivers have been reduced. Major streams which originate outside of Utah, namely the Colorado, Green and San Juan Rivers, have slightly lower forecasts than a month ago.

Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

Bear River Basin

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

WATER SUPPLY OUTLOOK:

Snowpack on the Bear River watershed increased only about 80% as much as usual during February. March 1 snow surveys indicate Bear River snowpack is only 57% of average. Logan River snowpack is 48% of normal. Streamflow forecasts are generally the same or slightly greater than last month with the exception of Cub River which decreased slightly. Forecasts range from 27 to 82% of average. Reservoir storage is good with all reservoirs near to much above average for the end of February.

For more information contact your local Soil Conservation Service office:

Tremonton Field Office 801-257-5403
Logan Field Office 801-753-5616

BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS, MAX, (1000AF)	REAS, MAX, (% AVG.)	REAS, MIN, (1000AF)	REAS, MIN, (% AVG.)
BEAR RIVER near UT-WY Stateline	APR-JUL	116.0	95.0	82	121.0	104	74.0	64
BEAR near Woodruff	APR-JUL	144.0	88.0	61	144.0	100	55.0	38
WOODRUFF CREEK near Woodruff	APR-JUL	17.3	9.5	53	14.0	81	5.0	29
BIG CREEK near Randolph	APR-JUL	5.3	3.0	57	6.0	113	1.0	19
BEAR near Randolph	APR-JUL	126.0	70.0	56	141.0	112	25.0	20
THOMAS FORK near Stateline	APR-SEP	37.0	10.0	27	19.0	51	1.0	3
SMITHS FORK near Border	APR-SEP	122.0	65.0	53	94.0	77	36.0	30
BEAR RIVER near Harter	APR-SEP	326.0	150.0	46	241.0	74	72.0	22
LOGAN RIVER near Logan	APR-JUL	122.0	80.0	66	103.0	84	59.0	48
BLACKSMITH FORK near Hyrum	APR-JUL	57.0	35.0	61	54.0	95	17.0	30
LITTLE BEAR RIVER near Paradise	APR-JUN	42.0	27.0	64	43.0	102	11.0	26
CUB RIVER near Preston	APR-JUL	46.8	25.0	53	43.0	92	14.0	30

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			AVG'D	LAST YR.
BEAR LAKE	1421.0	1051.5	1057.7	992.5	BEAR RIVER, UPPER IN UTAH	6	47	48
HYRUM	15.3	10.0	10.7	10.8	BEAR RIVER, LOWER IN UTAH	8	35	52
PORCUPINE	11.3	10.8	9.3	3.7	BEAR RIVER DRAINAGE IN UT	13	38	57
WOODRUFF NARROWS	55.8	50.0	34.2	—	BEAR RIVER, UPPER (above	12	44	64
WOODRUFF CREEK	3.5	3.6	—	—	BEAR RIVER, LOWER (below	17	34	52
					BEAR RIVER DRAINAGE	27	37	56
					LOGAN RIVER	5	32	48
					RAFT RIVER	3	51	63
					BEAR RIVER BASIN	32	39	57

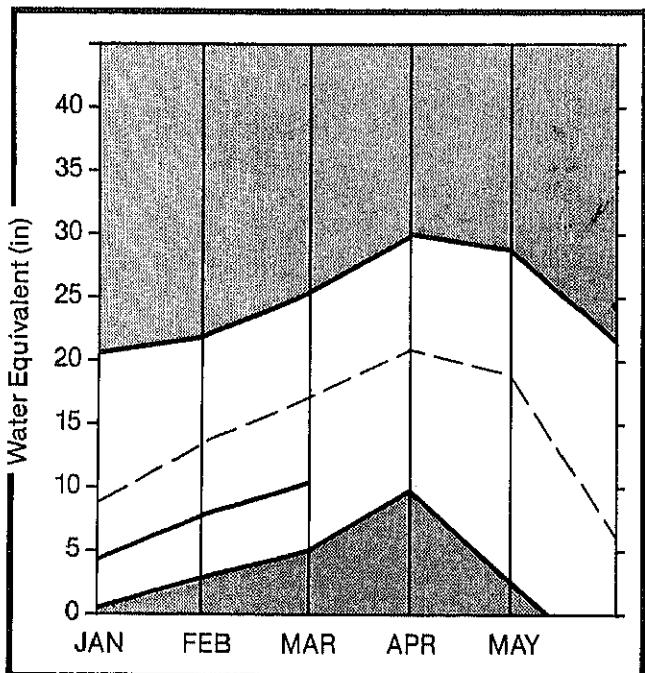
1 - Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Weber & Ogden Watersheds

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average

Minimum Current

WATER SUPPLY OUTLOOK:

Weber River snowpack, relative to average, is slightly improved from last month. The Ogden River, however, went from 63% of average on February 1 to 56% on March 1. April 1 snowpack will only end up at 70% of average if March precipitation is normal. Forecasts of spring and summer streamflow followed the snowpack trends. Weber River forecasts increased slightly while forecasts on the Ogden River decreased. Forecasts range from 64 to 87% of average. Reservoir storage is 82% of capacity and 135% of average.

For more information contact your local Soil Conservation Service office:
Layton Sub Office 801-544-9144

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX, (1000AF)	REAS. MAX, (% AVG.)	REAS. MIN, (1000AF)	REAS. MIN, (% AVG.)
WEBER RIVER near Oakley	APR-JUN	107.0	85.0	79	112.0	105	61.0	57
ROCKPORT RESERVOIR inflow	APR-JUN	120.0	88.0	72	128.0	107	50.0	42
CHALK CREEK near Coalville	APR-JUN	41.0	32.0	78	45.0	110	20.0	49
WEBER RIVER near Coalville	APR-JUN	127.0	91.0	72	128.0	101	58.0	46
LOST CREEK near Croyden	APR-JUN	15.6	11.0	71	18.0	115	4.0	26
EAST CANYON CREEK near Morgan	APR-JUN	29.0	21.0	72	31.0	107	13.0	45
HARDSCRABBLE CREEK near Porterville	APR-JUN	18.4	16.0	87	25.0	136	7.0	38
SOUTH FORK OGDEN RIVER near Huntsvil	APR-JUN	58.0	40.0	69	54.0	93	24.0	41
PINEVIEW RESERVOIR inflow	APR-JUN	122.0	78.0	64	102.0	84	49.0	40
WHEELER CREEK near Huntsville	APR-JUN	6.9	4.2	67	5.0	79	3.0	48
ECHO RESERVOIR inflow	APR-JUN	163.0	120.0	74	167.0	102	78.0	48
WEBER RIVER at Gateway	APR-JUN	328.0	225.0	69	300.0	91	150.0	46
FARMINGTON CREEK near Farmington	APR-JUL	8.2	5.7	70	10.0	122	2.0	24

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF
		THIS YEAR	LAST YEAR	AVG.			LAST YR, AVERAGE
CAUSEY	6.9	4.4	3.5	2.3	OGDEN RIVER	4	39 56
EAST CANYON	48.1	49.6	43.5	35.6	WEBER RIVER	14	46 67
ECHO	73.9	63.4	46.0	49.5	WEBER & OGDEN WATERSHEDS	18	44 69
LOST CREEK	20.0	17.6	12.3	10.4			
PINEVIEW	110.1	63.8	94.7	48.7			
ROCKPORT	60.9	42.0	39.8	30.2			
WILLARD BAY	165.5	164.8	154.8	116.4			

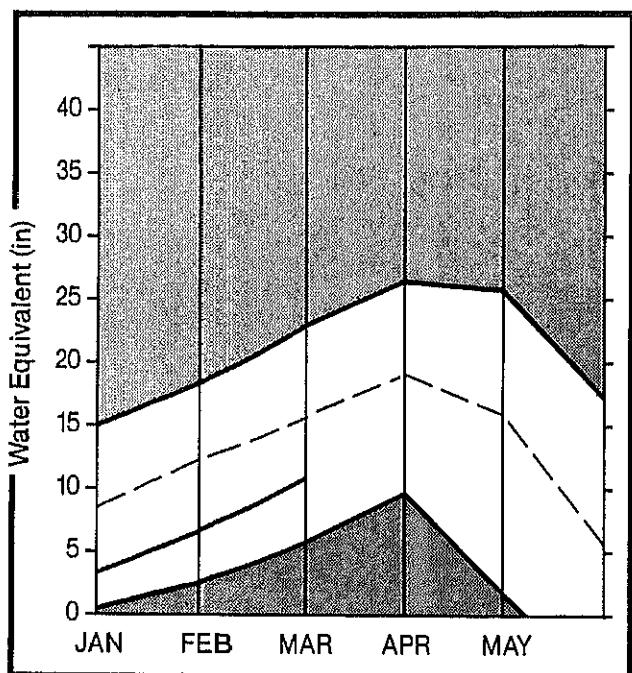
1 - Reas. max, and reas. min, forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Utah Lake, Jordan River & Tooele Valley

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

WATER SUPPLY OUTLOOK:

Snowpack increased 26% more than usual during February over the Utah Lake-Jordan River and Tooele Valley watersheds. Snowpack now ranges from 58% of the March 1 average on the Provo River to 89% for the Tooele Valley watersheds. Streamflow forecasts are generally slightly less or equal to last month with the exception of Strawberry Res. Inflow which increased slightly. Forecasts range from 50 to 96% of average. Reservoir storage is 130% of the end of February average.

For more information contact the State Water Control Board
Nonsurface Water Section at (801) 533-4270 or (800) 533-4279
Water Use Efficiency Program at (801) 533-4270 or (800) 533-4280

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
PROVO near Hailstone	APR-JUL	113.0	82.0	73	115.0	102	55.0	49
PROVO below Deer Creek Dam	APR-JUL	133.0	90.0	68	125.0	94	51.0	38
AMERICAN FORK near American Fk.	APR-JUL	34.0	27.0	79	33.0	97	23.0	68
HOBBLE CREEK near Springville	APR-JUL	23.3	12.0	52				
STRAWBERRY RESERVOIR inflow	APR-JUL	60.0	41.0	68	54.0	90	27.0	45
PAYSON CREEK near Payson	APR-JUL	7.3	4.5	62				
UTAH LAKE inflow	APR-JUL	295.0	280.0	95	363.0	123	200.0	68
LITTLE COTTONWOOD CRK near SLC	APR-JUL	41.0	30.0	73	37.0	90	25.0	61
BIG COTTONWOOD CRK near SLC	APR-JUL	39.0	36.0	92	40.0	103	29.0	74
PARLEY'S CREEK near SLC	APR-JUL	17.0	12.5	74	18.0	106	9.0	53
HILL CREEK near SLC	APR-JUL	6.9	6.6	96	9.0	130	5.0	72
EMIGRATION CREEK near SLC	APR-JUL	4.6	2.6	57				
CITY CREEK near SLC	APR-JUL	9.0	6.3	70	8.0	89	5.0	56
SETTLEMENT CREEK near Tooele	APR-JUL	2.3	1.8	78	3.0	130	0.5	22
SOUTH WILLOW CREEK near Grantsville	APR-JUL	3.0	1.9	63	4.0	133	0.5	17
VERNON CREEK near Vernon	APR-JUN	1.2	0.6	50	1.3	107	0.2	16

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF		
	THIS YEAR	LAST YEAR	AVG.	AVG'D	LAST YR.	AVERAGE	
DEER CREEK	149.7	130.1	139.3	95.5	10	41	56
GRANTSVILLE	3.3	3.2	2.3	—	5	97	58
SETTLEMENT CREEK	1.0	0.9	0.8	0.5	6	67	81
STRAWBERRY-ENLARGED	951.4	689.9	354.7	—	4	104	89
UTAH LAKE	883.9	693.0	1059.7	689.4	20	58	71
VERNON CREEK	0.6	0.6	0.5	0.5			

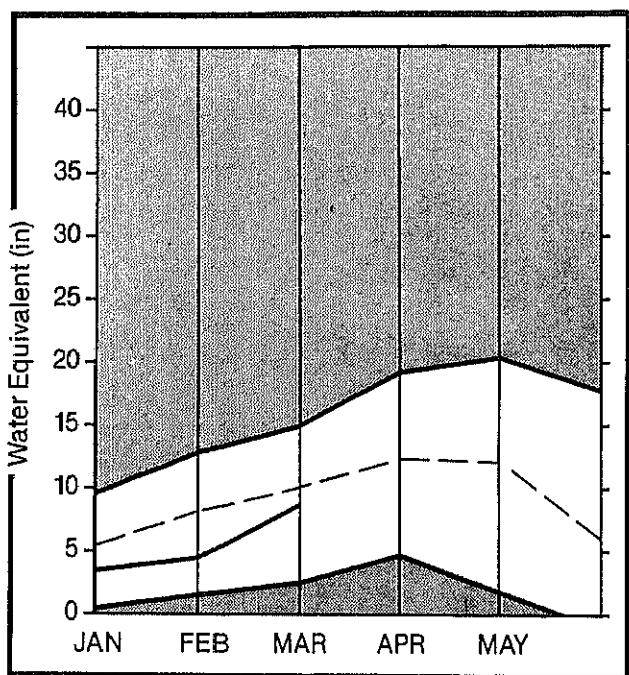
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2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Uintah Basin & Dagget SCD's

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

WATER SUPPLY OUTLOOK:

Snowpack increase during February was 157% of normal. March 1 snowpack on the Uintas ranges from 47% of average on the Strawberry River to 126% of average on Sheep Creek. Streamflow forecasts for streams originating in Utah have generally increased from the levels forecast last month reflecting the improved snowpack picture. Forecasts range from 61 to 105% of average. Reservoir storage in reservoirs for which an average is established ranges from 143 to 166% of normal for this time of year.

For more information contact your local Soil Conservation Service office:
Reservoirs: Field Office 801-732-4621

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX, (1000AF)	REAS. MAX, (% AVG.)	REAS. MIN, (1000AF)	REAS. MIN, (% AVG.)
DUCESNE RIVER near Tabiona	APR-JUL	105.0	88.0	84	105.0	100	68.0	65
DUCESNE RIVER near Duchesne	APR-JUL	189.0	154.0	81	192.0	102	116.0	61
STRAWBERRY RIVER at Duchesne	APR-JUL	69.0	42.0	61	56.0	81	28.0	41
ROCK CREEK near Mountain Home	APR-JUL	95.0	84.0	88	107.0	113	67.0	71
CURRENT CREEK near Fruitland	APR-JUL	20.0	13.5	68	18.0	90	9.0	45
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	62.0	89	80.0	114	47.0	67
YELLOWSTONE RIVER near Altonah	APR-JUL	66.0	62.0	94	86.0	130	38.0	58
DUCESNE near Myton	APR-JUL	223.0	165.0	74	234.0	105	78.0	35
WHITE ROCKS RIVER near Whiterocks	APR-JUL	69.0	63.0	105	88.0	147	38.0	63
UINTAH RIVER near Neola	APR-JUL	86.0	83.0	97	118.0	137	48.0	56
DUCESNE near Randlett	APR-JUL	257.0	200.0	78	382.0	149	18.0	7
WEST FORK DUCESNE RIVER near Hanna	APR-JUL	28.0	20.0	71	25.0	89	14.0	50
HENRY'S FORK near Manila	APR-SEP	51.0	47.0	92	67.0	131	31.0	61
BLACK'S FORK near Millburne	APR-JUL	90.0	78.0	87	110.0	122	50.0	56
FLAMING GORGE RESERVOIR inflow	APR-SEP	1445.0	1100.0	76	1476.0	102	768.0	53
ASHLEY CREEK near Vernal	APR-JUL	52.0	51.0	98	64.0	123	41.0	79

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF
	THIS YEAR	LAST YEAR	Avg.	Avg'd	LAST YR, AVERAGE
FLAMING GORGE	3749.0	2962.0	2958.0	13	77 95
MOON LAKE	35.8	27.9	21.8	16.8	ASHLEY CREEK 2 71 85
RED FLEET	26.0	17.5	20.7	---	BLACK'S FORK RIVER 3 76 96
STEINAKER	33.3	32.2	32.6	21.1	SHEEP CREEK 2 114 128
STARVATION	165.3	160.3	147.3	112.1	DUCESNE RIVER 16 46 71
STRAWBERRY-ENLARGED	951.4	689.3	654.7	---	LAKE FORK-YELLOWSTONE CRE 3 45 82
					STRAWBERRY RIVER 4 31 47
					UINTAH-WHITEROCKS RIVERS 4 54 82
					UINTAH BASIN & DAGGET SCD 29 57 80

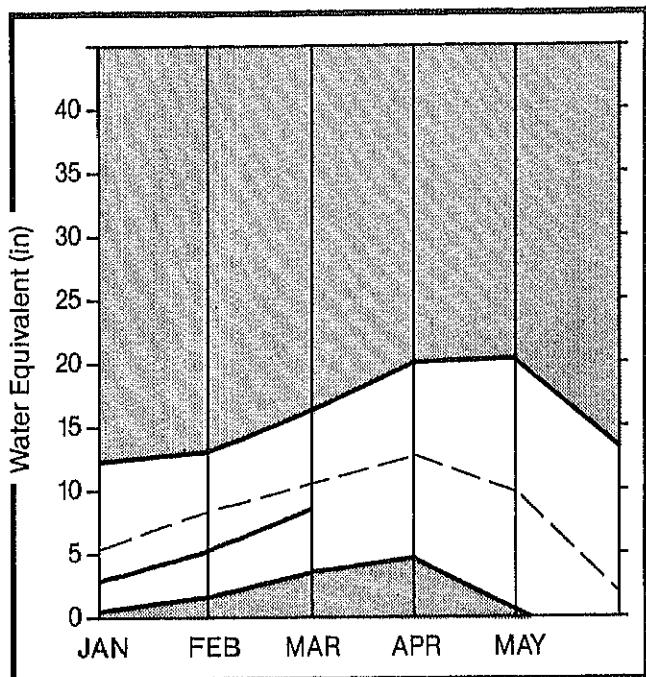
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Carbon, Emery, Wayne, Grand, and San Juan Co.

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

WATER SUPPLY OUTLOOK:

Southeastern Utah snowpack improved during February especially on the Blues and La Sals where the snowpack is now greater than average for March 1. Snowpack now ranges from 51% of average on the Price River to 132% on the La Sal Mountains. Streamflow forecasts for Utah streams north of Cottonwood Creek have decreased while those south of Cottonwood Creek have increased from last month. Forecasts now range from 46 to 119% of average. All reservoirs for which data are available are reporting above average.

For more information contact your local Soil
Conservation Service office
Price Field Office 801-632-0041

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
GOOSEBERRY CREEK near Scofield	APR-JUL	12.0	6.6	55	11.0	92	3.0	25
SCOFIELD RESERVOIR inflow	APR-JUL	46.0	24.0	52	36.0	78	14.0	30
PRICE near Heiner	APR-JUL	78.0	36.0	46				
HUNTINGTON CREEK near Huntington	APR-JUL	55.0	33.0	60	48.0	87	23.0	42
COTTONWOOD CREEK near Orangeville	APR-JUL	47.0	32.0	68	48.0	102	16.0	34
FERRON CREEK near Ferron	APR-JUL	41.0	28.0	68	43.0	105	13.0	32
MUDY CREEK near Emery	APR-JUL	21.0	15.0	71	23.0	110	7.0	33
COLORADO near Cisco, UT	APR-JUL	3443.0	3500.0	102	4877.0	142	2433.0	71
GREEN near Green Rv., UT	APR-JUL	3176.0	2800.0	88	3658.0	115	1942.0	61
MILL CREEK near Moab	APR-JUL	5.5	6.0	109	8.0	145	4.0	73
NAVAJO RESERVOIR inflow	APR-JUL	764.0	825.0	108	1138.0	149	558.0	73
SAN JUAN near Bluff, UT	APR-JUL	1091.0	1300.0	119	1813.0	166	875.0	80
SEVEN MILE CREEK near Fish Lake	APR-JUL	6.5	5.5	63	8.0	123	3.0	46

RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF
	THIS YEAR	LAST YEAR	Avg.	Avg'd	LAST YR. AVERAGE
HUNTINGTON NORTH	3.9	4.0	2.9	3.0	PRICE RIVER 3 37 51
JOE'S VALLEY	54.6	45.8	38.3	48.6	SAN RAFAEL RIVER 7 48 63
KEN'S LAKE	2.3	0.9	1.3	---	MUDY RIVER 2 46 56
MILL SITE	16.7	12.0	9.2	4.0	FREMONT RIVER 4 85 91
SCOFIELD	65.8	52.7	49.3	32.2	LASAL MOUNTAINS 2 130 132
					BLUE MOUNTAINS 2 107 105
					WILLOW CREEK - WHITE RIVE 0 0 0
					CARBON, EMERY, WAYNE, GRA 21 65 78

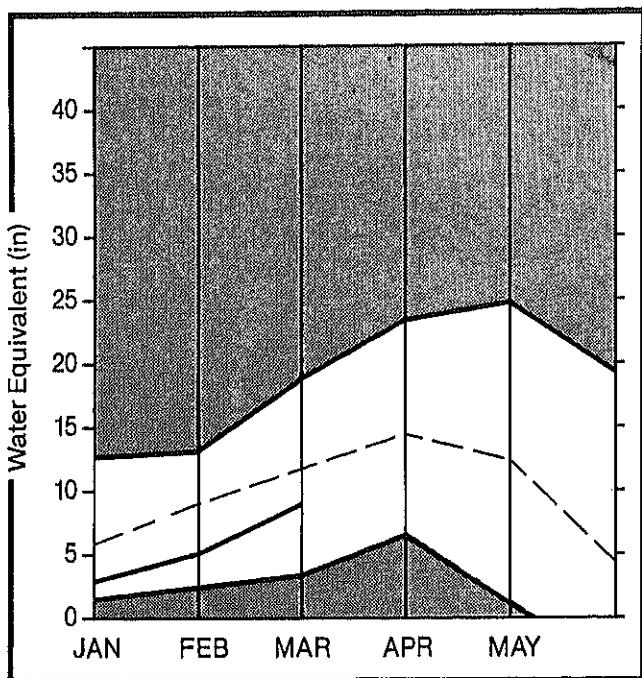
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Sevier & Beaver River Basins

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

WATER SUPPLY OUTLOOK:

Snowpack on the Sevier River watershed increased 30% more than usual during February. If March precipitation is normal April 1 snowpack should be about 80% of average. Snowpack percentages now range from 68% on the Lower Sevier to 89% on the East Fork. Water supply forecasts have generally increased from last month except for Ephraim Creek and Pleasant Creek which are substantially less. Reservoir storage is reported at 95% of capacity and 176% of average. Gunnison and Otter Creek are full.

For more information contact your local Soil Conservation Service office:

Ricard Field Office 801-896-6267

Billings Field Office 801-743-6695

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS, MAX, (1000AF)	REAS, MAX, (% AVG.)	REAS, MIN, (1000AF)	REAS, MIN, (% AVG.)
SEVIER at Hatch	APR-JUL	52.0	45.0	87	65.0	125	29.0	56
SEVIER near Circleville	APR-JUL	44.0	41.0	93				
SEVIER near Kingston	APR-JUL	34.0	27.0	79	54.0	159	7.0	21
ANTIMONY CREEK near Antimony	APR-JUL	6.9	7.1	80				
E F SEVIER near Kingston	APR-JUL	24.0	23.0	96	38.0	158	14.0	58
SEVIER blw Piute Dam	APR-JUL	56.0	50.0	89	87.0	155	19.0	34
CLEAR CREEK near Sevier	APR-JUL	22.0	15.0	68				
SIGURD to GUNNISON	APR-JUL	44.0	76.0	173	116.0	264	39.0	89
KINGSTON to VERMILLION DAM	APR-JUN	40.0	50.0	125				
VERMILLION DAM to GUNNISON	MAR-JUN	54.0	66.0	159				
SALINA CREEK at Salina	APR-JUN	18.2	9.1	50				
SEVIER nr Gunnison	APR-JUL	99.0	120.0	121				
CHALK CREEK near Fillmore	APR-JUL	16.4	10.0	61	16.0	98	4.0	24
CHICKEN CREEK near Levan	APR-JUL	3.5	2.2	63	3.0	86	1.0	29
OAK CREEK near Oak City	APR-JUL	1.6	0.8	50	2.0	125	0.3	19
EPHRAIM CREEK near Ephraim	APR-JUL	25.0	10.5	42				
PLEASANT CREEK near Pleasant	APR-JUL	11.5	5.5	48				
SALT CREEK near Nephi	APR-JUL	19.5	8.8	65	19.0	141	4.0	30
BEAVER RIVER near Beaver	APR-JUL	27.0	22.0	81	36.0	133	10.0	37
NORTH CREEK near Beaver (combined N	APR-JUL	14.6	12.4	85	24.0	164	1.0	7
MINERSVILLE RESERVOIR inflow	APR-JUN	8.9	8.0	90	12.0	135	4.0	45

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF
	THIS YEAR	LAST YEAR	AVG.		LAST YR. AVERAGE
GUNNISON	20.3	20.3	18.0	14.0	11 95 84
MINERSVILLE (RkyFd)	26.0	21.0	20.2	12.9	EAST FORK SEVIER RIVER 4 101 89
OTTER CREEK	52.6	52.6	52.0	31.2	SOUTH FORK SEVIER RIVER 7 93 81
PIUTE	71.8	63.6	66.7	41.5	LOWER SEVIER RIVER (inclu 12 66 68
SEVIER BRIDGE	236.0	227.6	231.9	119.6	BEAVER RIVER 3 53 77
PANQUITCH LAKE	22.3	17.5	19.2	---	SEVIER & BEAVER RIVER BAS 26 72 74

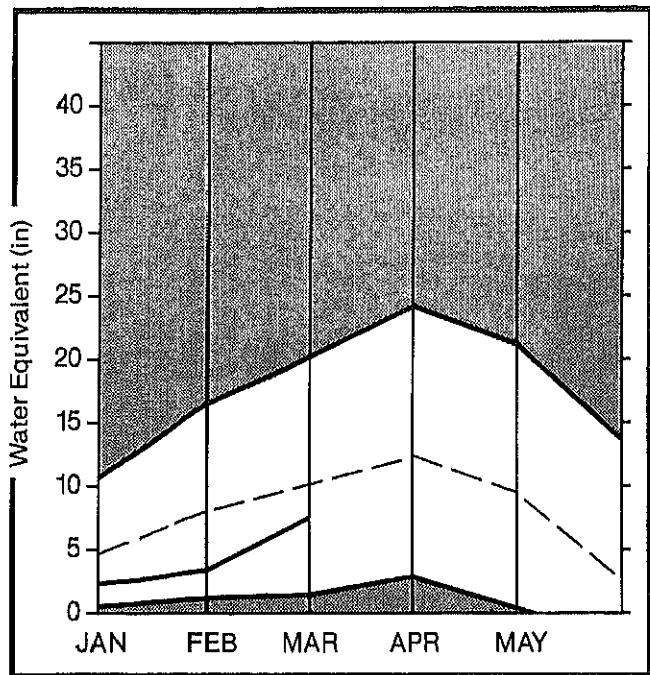
1 - Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

E. Garfield, Kane, Washington, & Iron Co.

Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

WATER SUPPLY OUTLOOK:

During February the snowpack in southwestern Utah increased 74% more than usual bringing the regional snowpack to 73% of average for March 1. The heavy storm in the last week of the month raised individual snow course percentages from 12 to 68% from pre-storm levels with the greatest increases occurring on the Enterprise-New Harmony drainages. Local streamflow forecasts now range from 70 to 74% of average. Gunlock and Quail Creek reservoirs are up to about 60% of capacity.

For more information contact the U.S. Army Corps of Engineers
Conservation Service, 1000 17th Street, Suite 1000, Denver, CO 80202-3940.

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG, (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS, MAX, (1000AF)	REAS, MAX, (% AVG.)	REAS, MIN, (1000AF)	REAS, MIN, (% AVG.)
VIRGIN near Hurricane	APR-JUN	68.0	50.0	74	75.0	110	23.0	34
SANTA CLARA near Pine Valley	APR-JUN	5.0	3.6	72				
COAL CREEK near Cedar City	APR-JUL	20.0	14.0	70	22.0	110	9.0	45
LAKE POWELL inflow	APR-JUL	8086.0	7500.0	93	10411.0	129	4993.0	62

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
GUNLOCK	10.4	6.4	---	---	VIRGIN RIVER	5	72 60
LAKE POWELL	25002.0	21570.0	22446.0	---	PAROWAN	4	124 95
QUAIL CREEK	40.0	24.0	---	---	ENTERPRISE TO NEW HARMONY	2	167 54
UPPER ENTERPRISE		NO REPORT			COAL CREEK	3	75 65
LOWER ENTERPRISE		NO REPORT			ESCALANTE RIVER	2	167 160
					E. GARFIELD, KANE, WASHIN	12	98 73

1 - Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

SNOW MEASUREMENT DATA

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ASHLEY TWIN LAKES	10500	03/04	48	10.1	14.9	13.6
ATWOOD LAKE	10500	03/04	39	8.6	13.8	9.7
BEAVER CREEK DIVIDE	8280	02/28	29	7.1	17.9	10.8
BEAVER DAMS	8000	02/25	28	7.0	10.4	10.5
BEN LOMOND PEAK	8000	02/26	74	20.8	47.7	31.2
BEN LOMOND TRAIL	6000	02/26	38	10.2	22.5	16.7
BEVAN'S CABIN	6450	03/02	36	11.1	3.8	8.8
BIG FLAT	10290	02/22	44	13.5	22.2	14.5
BIRCH CROSSING	8100	03/05	22	5.0	3.7	7.6
BLACK'S FLAT-U.M. CK	9400	02/25	32	7.0	10.8	9.4
BLACK'S FORK	9200	03/01	-	6.8E	13.9	11.5
BLACK'S FORK GS-EF	9340	03/01	26	6.5	9.3	7.6
BLACK'S FORK JUNCTN	8930	03/01	28	6.6	8.9	7.6
BOX CREEK	9300	02/27	33	7.5	10.8	11.4
BRIAN HEAD	10000	02/27	67	17.1	14.8	16.5
BRIGHTON	8750	02/26	63	17.6	-	29.3
BROWN DUCK RIDGE	10600	02/28	63	13.8	28.4	16.9
BRYCE CANYON	8000	03/05	18	3.7	1.0	4.6
BUCK FLAT	9800	02/26	42	9.0	18.5	14.8
BUCK PASTURE	9700	03/04	45	10.8	18.0	13.5
BUCKBOARD FLAT	9000	03/03	50	13.0	10.0	10.8
BUG LAKE	7950	02/26	38	8.9	27.8	15.5
BURT'S-MILLER RANCH	7900	02/28	17	3.8	5.5	4.6
CAMP JACKSON	9600	02/25	49	10.4	11.8	11.5
CASTLE VALLEY	9580	02/27	48	10.3	9.7	11.4
CHALK CREEK #1	9100	02/28	56	15.3	30.9	18.7
CHALK CREEK #2	8200	02/28	40	10.2	17.5	12.2
CHALK CREEK #3	7500	02/28	22	5.4	8.3	6.7
CHEPETA	10300	02/28	45	9.2	16.6	10.6
CHEPETA-WHITERKS. LK	10350	03/04	47	9.2	16.2	12.6
CLEAR CREEK MEADOWS	9420	2/27	58	13.8	24.0	19.3
CLEAR CREEK RIDGE #1	9200	02/27	37	8.6	21.3	16.2
CLEAR CREEK RIDGE #2	8000	02/27	32	7.3	13.6	12.3
CLEAR CREEK RIDGE #3	6600	02/26	14	3.1	7.8	7.5
CURRENT CREEK	8000	02/27	18	3.4	18.7	8.9
DANIELS-STRAWBERRY	8000	02/27	21	5.3	20.6	12.9
DESERET PEAK	9250				-	22.2
DILL'S CAMP	9200	02/26	32	5.6	13.2	10.6
DONKEY RESERVOIR	9800	02/27	52	12.1	6.2	6.7
DRY BREAD FOND	8350	02/26	25	5.6	24.0	16.0
DUCK CREEK R.S.	8700	03/01	-	9.8E	10.8	11.8
EAST SHINGLE LAKE	9800	03/04	51	14.3	-	22.8
EAST WILLOW CREEK	8250	03/02	27	6.0	-	9.9
FARMINGTON CANYON	8000	02/26	57	16.4	35.1	26.1
FARMINGTON CANYON L.	6950	02/26	48	13.4	25.7	20.0
FARNSWORTH LAKE	9600	02/25	60	15.7	13.6	15.5
FISH LAKE	8700	02/26	23	5.0	8.2	7.4
FIVE POINT LAKE	11000	03/04	54	12.4	20.2	13.1
G.B.R.C. HEADQUARTER	8700	02/26	40	10.1	16.1	14.2
G.B.R.C. MEADOWS	10000	02/26	55	13.3	22.3	20.0
GARDEN CITY SUMMIT	7600	02/26	28	5.6	24.9	18.4
GEORGE CREEK	8840	2/27	54	12.4	23.2	-
GOOSEBERRY R.S.	8000	02/25	36	8.6	8.6	10.1
HARDSCRABBLE	6700	02/26	36	9.6	23.0	17.0
HARRIS FLAT	7700	02/27	26	6.1	7.0	7.9
HAYDEN FORK	9400	02/28	36	9.3	18.8	12.9
HENRY'S FORK	10000	03/04	40	10.8	13.2	11.9
HEWINTA G.S.	9500	03/01	31	7.7	9.5	7.5
HOLE-IN-THE-ROCK	9150	02/28	25	5.2	5.8	4.5
HOLE-IN-THE-ROCK GS	8300				-	2.3
HICKERSON PARK	9100	02/28	32	6.7	6.4	5.5
HOBBLE CREEK SUMMIT	7420	02/27	25	5.6	18.4	12.9
HORSE RIDGE	8260	02/26	40	10.4	30.3	18.9
HUNTINGTON-HORSESHOE	9800	02/26	46	13.0	27.5	21.3

SNOW MEASUREMENT DATA (cont.)

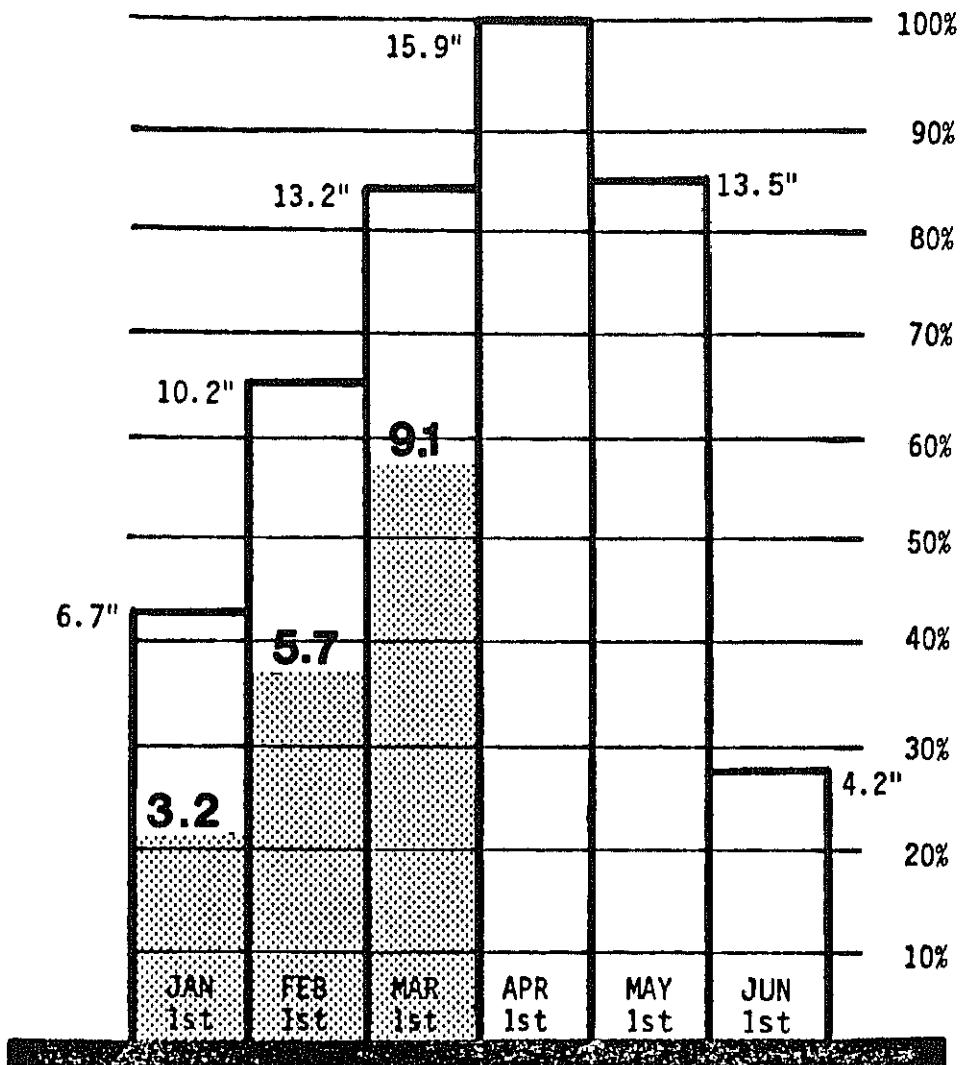
SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
INDIAN CANYON	9100	02/26	38	7.3	18.4	10.8
JOHNSON VALLEY	8850	02/25	17	3.2	6.8	6.4
KILFOIL CREEK	7300	02/26	34	8.0	18.0	12.5
KIMBERLY MINE(UPPER)	9300	02/22	47	11.7	14.7	13.1
KING'S CABIN (UPPER)	8730	03/01	30	6.7	9.8	8.5
KLONDIKE NARROWS	7400	02/26	38	9.1	27.0	17.4
KOLOB-CRYSTAL	9250	02/22	33	9.2	15.6	17.4
LAKEFORK BASIN	11100	03/04	52	10.9	20.2	17.7
LAKEFORK MOUNTAIN #1	10200	02/28	38	8.9	17.6	9.4
LAKEFORK MOUNTAIN #3	8400	02/28	21	3.4	12.1	5.7
LAMBS CANYON	7400	03/02	40	11.3	13.4	14.2
LASAL MOUNTAIN LOWER	8800	02/26	36	8.9	6.2	7.8
LASAL MOUNTAIN (UPP)	9850	02/26	68	18.1	14.6	12.6
LIGHTNING LAKE	10500	03/04	69	15.2	23.5	19.8
LILY LAKE	9050	02/28	39	10.1	15.4	11.9
LITTLE BEAR (LOWER)	6000	02/26	27	6.7	10.5	9.5
LITTLE BEAR (UPPER)	6580	02/26	31	7.7	16.3	11.2
LITTLE GRASSY CREEK	6100	02/22	0	0.0	0.0	4.0
LONG FLAT	8000	02/22	20	5.4	3.2	6.0
LONG VALLEY JCT.	7500	02/27	11	1.8	0.0	4.9
LOST CREEK RESERVOIR	6130	02/26	14	3.4	7.8	5.8
MAMMOTH-COTTONWOOD	8800	02/26	39	9.3	27.5	18.4
MERCHANT VALLEY (UP)	8750	02/22	24	6.4	13.3	10.5
MIDDLE BEAVER CREEK	8650				-	3.6
MIDDLE CANYON	7000	03/02	44	13.4	9.3	11.7
MIDWAY VALLEY	9800	02/27	60	14.3	18.7	18.1
MILL CREEK	6950	02/27	48	12.9	17.2	16.3
MILL D SOUTH FORK	7400	02/27	44	12.6	16.6	17.2
MONTE CRISTO R.S.	8960	02/26	41	11.1	28.4	21.6
MOSBY MOUNTAIN(LOW)	9500	03/01	30	5.4	15.6	8.2
MT. BALDY R.S.	9500	02/26	55	13.3	24.5	20.2
MUD CREEK #2	8600	02/26	40	7.6	18.5	11.9
OAK CREEK	7760	02/22	20	4.8	10.5	11.4
ONE MILE SUMMIT	7330	2/27	16	3.1	5.1	6.0
OTTER LAKE	9600	02/22	31	8.2	17.5	11.6
PANQUITCH LAKE	8200	02/27	23	4.6	1.8	4.6
PARADISE PARK	10100	03/01	40	10.6	17.0	11.2
PARLEY'S CANYON SUM.	7500	03/02	43	12.2	17.7	16.0
PAYSON R.S.	8050	02/22	43	10.6	14.1	16.6
PICKLE KEG SPRING	9600	02/25	39	9.0	11.9	14.6
PINE CANYON	8000	02/26	39	9.8	24.2	17.4
PINE CREEK	8800	02/22	46	10.5	12.3	14.0
REDDEN MINE LOWER	8500	02/28	37	10.2	22.1	15.2
RED PINE RIDGE	9200	02/26	42	9.9	17.7	15.0
REES'S FLAT	7300	02/22	22	6.5	11.6	11.2
REYNOLDS PARK	10400	03/04	60	13.2	19.2	13.8
ROCK CREEK	7900	02/28	22	3.2	15.2	6.8
ROCKY BASIN-SETTLEMENT	8900	03/02	60	18.4	18.8	23.4
SEELEY CREEK R.S.	10000	02/26	40	9.2	16.7	14.4
SERGEANT LAKES	8300	03/04	36	9.4	26.9	14.5
SHINGLE MILL	6200	03/02	21	5.3	2.4	7.8
SILVER LAKE(BRIGHT.)	8730	02/27	54	14.4	28.4	20.6
SMITH & MOREHOUSE	7600	02/28	30	7.8	14.8	11.4
SNOWBIRD GAD VALLEY	9700	03/04	79	27.4	42.0	28.1
SOAPSTONE R.S.	7800	03/01	-	8.0E	16.9	11.1
SPIRIT LAKE	10300	02/28	50	13.0	10.9	10.1
SQUAW SPRINGS	9300	02/25	21	3.8	7.2	6.6
STEEL CREEK PARK	10100	03/01	51	13.9	17.4	12.9
STILLWATER CAMP	8550	02/28	31	6.8	12.3	8.6
STRAWBERRY DIVIDE	8400	02/27	35	7.4	22.1	17.0
STUART R.S.	7950	02/26	26	4.2	14.1	7.4
SUSC RANCH	8200	03/05	23	5.3	5.0	7.7
TALL POLES	8800	03/05	42	9.5	8.8	12.2

SNOW MEASUREMENT DATA (cont.)

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
THAYNES CANYON	9200	03/03	50	13.5	23.5	-
THISTLE FLAT	8500				-	13.8
TIMPANOGOS DIVIDE	8140	02/27	40	11.1	31.7	22.0
TONY GROVE LAKE	8400	02/26	54	14.3	43.8	30.9
TONY GROVE R.S.	6250	02/26	22	5.3	15.8	11.1
TRIAL LAKE	9960	02/28	48	13.4	35.3	20.6
TROUT CREEK	9400	03/01	36	7.8	10.5	8.5
UPPER JOES VALLEY	8900	02/27	32	6.2	12.7	9.6
VERNON CREEK	7500	03/01	-	4.9E	13.9	10.1
VIPONT	7670	2/27	34	7.4	18.8	13.4
WEBSTER FLAT	9200	02/22	29	7.1	12.1	15.0
WHITE RIVER #1	8550	02/26	31	5.1	17.3	11.9
WHITE RIVER #3	7400	02/26	15	3.6	8.1	7.9
WIDTSOE-ESCALANTE #3	9500	02/27	65	13.6	9.2	9.4
WRIGLEY CREEK	9000	02/26	39	6.6	12.9	9.8
YANKEE RESERVOIR	8700	02/25	42	9.5	5.8	8.0

Utah Snowpack Progress

1987



Statewide

NOTE :

Snow water equivalent in inches is compared to the highest seasonal amount (100%). Monthly averages are accumulated by basin/state.

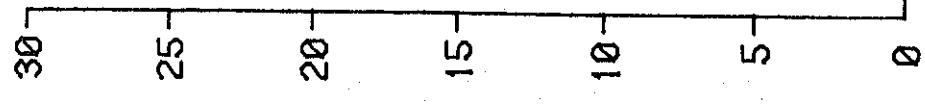
Averages are for the period 1961-1985.

1987 SNOWPACK COMPARISON

March 1, 1987

3/1/87 WATER CONTENT
3/1+NORMAL MARCH INC

3/1 AVERAGE
4/1 AVERAGE



INCHES

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State	Utah State University Utah State Department of Natural Resources Division of Wildlife Resources Division of Water Resources Division of Water Rights Bear River Commissioner Price River Commissioner Provo River Commissioner Sevier River Commissioners Spanish Fork River Commissioner Utah Lake and Jordan River Commissioner
Federal	U.S. Department of Agriculture Soil Conservation Service Forest Service U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey National Park Service
Municipality	Manti Salt Lake City
Public	Beaver River Water Users Association Board of Canal Presidents - Jordan River Central Utah Conservancy District Emery Canal and Reservoir Company Moon Lake Water Users Association Ogden River Water Users Association Provo River Water Users Association Strawberry Water Users Association Sevier River Water Users Association Weber River Water Users Association Weber Basin Conservancy District
	Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.
	All programs and services of U.S. Dept. of Agriculture are available to everyone without regard to race, creed, color, sex, age, handicap, or national origin.